

ABSTRACT OF THE DISCLOSURE

A method of which includes the steps of introducing an acidic solution containing (V), copper, ferric iron and ferrous iron into a first tank of a series of continuously stirred tank reactors and, in the first tank, adding air to the solution; heating the solution to an elevated temperature; recycling a portion of selectively precipitated ferric arsenate compounds to the said first tank; and seeding the solution with ferric arsenate compounds.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 April 2001 (05.04.2001)

PCT

(10) International Publication Number
WO 01/23628 A1

(51) International Patent Classification⁷: C22B 30/04,
3/44. C01G 28/02

Klerk [ZA/ZA]; 6 Hollard Street, 2001 Johannesburg
(ZA).

(21) International Application Number: PCT/ZA00/00176

(74) Agent: RADEMEYER, Montague, Ampie, John;
McCallum Rademayer & Freedmond, P.O. Box 1130, 7
Maclyn House, Bordeaux, 2125 Randburg (ZA).

(22) International Filing Date:

21 September 2000 (21.09.2000)

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

99/6235 30 September 1999 (30.09.1999) ZA

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(72) Inventor; and

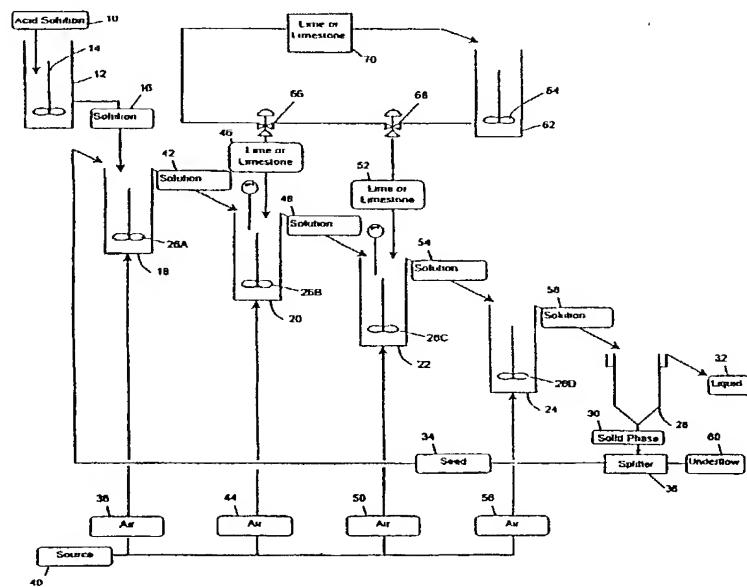
Published:

(75) Inventor/Applicant (for US only): BATTY, John, de

— With international search report

[Continued on next page]

(54) Title: STABLE FERRIC ARSENATE PRECIPITATION FROM ACID COPPER SOLUTIONS WHILST MINIMISING COPPER LOSSES



(57) Abstract: A method of which includes the steps of introducing an acidic solution containing arsenic(V), copper, ferric iron and ferrous iron into a first tank of a series of continuously stirred tank reactors and, in the first tank, adding air to the solution; heating the solution to an elevated temperature; recycling a portion of selectively precipitated ferric arsenate compounds to the said first tank; and seeding the solution with ferric arsenate compounds.

WO 01/23628 A1